

# Work Order ID 84477

May-15-12 1:03:49 PM

**\*84477\***

Page 1

Item ID: D206-642-411 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Skidtube LH  
 Start Date: 5/14/12 Start Qty: 1.00 **\*1\*** Cust Item ID:  
 Required Date: 5/14/12 Req'd Qty: 1.00 **\*1\*** Customer:  
 Reference: rework - ECN09-531

Approvals: Process Plan: *[Signature]* Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
IIN-D206-642	O

100  
**\*100\***  
 DC  
 Document Control

DOCUMENT CONTROL *[Signature]* 0.00  
 Memo 0.00  
 Photocopy bluefile and create labels per PPP D206-642-411 CHG006 *5/17/12*

*[Signature] MJS 12-6-7*

<b>DART</b>				TEL: 1-613-632-8336 FAX: 1-613-632-4443	
TRANSPORT CANADA APPROVAL #09-89					
P/N	D206-642-411	CHG	CHG004		
DESC	Skidtube LH High	STC	SH98-4		
LOT	B34560	SIC	SA00475SE		
MODEL	Bell 206L/L1/L3/L4	SIC			
US PATENT # 6,735,611 CANADA FOREIGN PATENTS PENDING					
MADE IN CANADA					

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Item ID: D206-642-411 Accept **\*N900040100\*** Setup Start **\*NS1\***  
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 Item Name: Skidtube LH  
 Start Date: 5/14/12 Start Qty: 1.00 **\*1\*** Cust Item ID:  
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 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
101		0.00							
<b>*101*</b>						1	φ	BR 12-6-4	
HandFinish	Memo	0.00							
Hand Finishing	PULL FROM HK: 1 X D206-642-411 B34560 UPDATE TO CHG006 PER ECN08-538 & 09-531 DSI9421/9440  REMOVE WEARPLATES: 6 X D2648-3 B34591 1 X D2656-15 B32579 1 X D2656-23 B34171 1 X D2656-37 B34510 1 X D3429-1 B34012 RETURN TO STK DISCARD HARDWARE  ADD: 6 X D3537-1 B_____ 1 X D3537-3 B_____ 1 X D3535-15 B_____ 1 X D3536-15 B_____ 1 X D3535-23 B_____ 1 X D3536-23 B_____ 1 X D3535-37 B_____ 1 X D3536-37 B_____ 60 X MS27039C1-08 B_____ 60 X AN960C10L (NAS1149C0332R) B_____								

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Item ID: D206-642-411

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Skidtube LH

Start Date: 5/14/12 Start Qty: 1.00

\*1\*

Cust Item ID:

Required Date: 5/14/12 Req'd Qty: 1.00

\*1\*

Customer:

Reference: rework - ECN09-531

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start \*NR1\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

105

QC5- Inspect part completeness to step on W/O

0.00

\*105\*

QC

Memo

0.00

Quality Control

87/10/15



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Item ID: D206-642-411

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Skidtube LH

Start Date: 5/14/12 Start Qty: 1.00

\*1\*

Cust Item ID:

Required Date: 5/14/12 Req'd Qty: 1.00

\*1\*

Customer:

Reference: rework - ECN09-531

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start \*NR1\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

110

Pick Kit

0.00

\*110\*

0.00

Packaging

Memo

Packaging

REMOVE FROM KIT TO UPDATE TO CHG006:

1 X D2707-043(OR D2968-043)-SCRAP 32503

1 X AN960JD1016 B 5319

1 X AN970-4 B 105442

1 X MS210424 B 105054

1 X AN4-5A B 100857

1 X AN960JD416 B 105426

1 X D2655 B 32989

RETURN TO STK

ADD TO KIT:

1 X D3407-043 B

1 X D3456-1 B 31876

2 X D3457-1 B 31977 (12)

1 X MS21043-4 B 21162

1 X AN4C5A B 119017

1 X AN960C416 B 119017

1 X D3413-1 B 83307

NAS1149204632 →

12/16/12

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Item ID: D206-642-411

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Skidtube LH

Start Date: 5/14/12 Start Qty: 1.00

**\*1\***

Cust Item ID:

Required Date: 5/14/12 Req'd Qty: 1.00

**\*1\***

Customer:

Reference: rework - ECN09-531

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 <b>*120*</b> QC Quality Control	QC4- 100% Inspect kits for completeness <i>is as apps are correct</i> <i>Memo</i> <i>and enter</i>	0.00 <i>5/16/12</i> 0.00							
130 <b>*130*</b> Packaging Packaging	Packaging  <b>Memo</b> REPACKAGE PER PPP USING NEW B/N NEW LABELS AND PAPERWORK REQ'D Identify and pack for shipping as per PPP D206-642-411 Location: <i>[Signature]</i> PPP Rev: <i>[Signature]</i>	0.00 0.00						<i>12/6/20</i>	
140 <b>*140*</b> QC Quality Control	QC21- Final Inspection - Work Order Release  <b>Memo</b>	0.00 0.00						<i>12/6/22</i>	<i>[Signature]</i>

*MF 12-06-21*

# Picklist Print

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Work Order ID: 84477

Parent Item: D206-642-411

Parent Item Name: Skidtube LH

Start Date: 5/14/12

Required Date: 5/14/12

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:K05.10.11 Revised picklist per CHG004KJ/CP/JLM  
IPP Rev:L 07-12-04 ECN 1080p DD verified by:ec  
IPP rev:M 08-09-29 as per DSI9421 DD verified by:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-5A Bolt		Purchased	No				Each	974.0000		-1			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST355		974							
				120562		974							
AN4C5A BOLT		Purchased	No				Each	199.0000					
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST355		199							
				112243		139							
				119017		60							
AN960C416 washer	NAS1149C0463R	Purchased	No				Each	0.0000		1			
AN960JD1016 Washer	NAS1149C1063R	Purchased	No				Each	369.0000		-1			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				Mezz		369							
				5519		369							
AN960JD416 Washer	NAS1149D0463J	Purchased	No				Each	30.0000		-1			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST351		30							
				116289		10							
				119097		20							

100857

1

1

-1

-1

105426

10/14/12

11/19/0972

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Work Order ID: 84477

Parent Item: D206-642-411

Parent Item Name: Skidtube LH

Start Date: 5/14/12

Required Date: 5/14/12

Start Qty: 1.00

Required Qty: 1.00

AN970-4 Purchased No Each 203.0000  
Washer

Location	Loc Qty	Loc Code
ST344	203	
115936	11	
120308	3	
120644	30	
121285	159	

M105421

D206-642-411 Manufactured No Each 1.0000  
Skidtube LH

Location	Loc Qty	Loc Code
FG081	1	
78486	1	

B84477

D2648-3 Manufactured No Each 9.0000  
Wearpad

Location	Loc Qty	Loc Code
ST 34591	-10	
81513	9	
ST237A	19	

-6 BR 126-4.

D2655 Manufactured No Each 30.0000  
Ring

Location	Loc Qty	Loc Code
ST464	30	
44295	15	
45738	15	

B32988

D2656-15 Manufactured No Each 6.0000  
Wearshoe

Location	Loc Qty	Loc Code
FP 32579	5	
83601	5	
Mezz	1	
51455	1	

1

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Work Order ID: 84477

Parent Item: D206-642-411

Parent Item Name: Skidtube LH

Start Date: 5/14/12

Required Date: 5/14/12

Start Qty: 1.00

Required Qty: 1.00

D2656-23 Manufactured No Each 9.0000  
Wearshoe

-1 BL 126-4.

Location	Loc Qty	Loc Code
Mezz 34171	9	
43407	2	
51468	7	

1  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D2656-37 Manufactured No Each 21.0000  
Wearshoe

-1 BL 12-6-4.

Location	Loc Qty	Loc Code
Mezz	21	
34510 ✓	2	
44550	7	
46497	1	
53019	11	

1  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

S D3407-043 Manufactured No Each 14.0000  
Tow Ring

B833254  
S

Location	Loc Qty	Loc Code
ST420	1	
79232	1	
ST463	13	
68339	2	
77504	10	
78841	1	

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

S D3413-1 Manufactured No Each 73.0000  
Ring

1 12/6/20

Location	Loc Qty	Loc Code
ST420	4	
79233	4	
ST464	69	
76754	1	
80224	7	
83307	41	
83867	20	

\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

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# Picklist Print

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Work Order ID: 84477

Parent Item: D206-642-411

Parent Item Name: Skidtube LH

Start Date: 5/14/12

Required Date: 5/14/12

Start Qty: 1.00

Required Qty: 1.00

D3429-1 Manufactured No Each 16.0000  
Wearpad

-1

BR 126-LL

Location	Loc Qty	Loc Code
FP002 34012	16	
40438	2	
43706	1	
44579	12	
65692	1	

1

D3456-1 Manufactured No Each 168.0000  
Washer

1

Location	Loc Qty	Loc Code
FG	7	
25701	7	
ST044	161	
80252	1	
81876	60	
83584	100	

1

6 D3457-1 Manufactured No Each 35.0000  
Washer

25

Location	Loc Qty	Loc Code
FG	10	
32409	10	
ST044	25	
67779	1	
81977	24	

5

D3535-15 Manufactured No Each 17.0000  
Wearshoe

1

BR 12-6-4

Location	Loc Qty	Loc Code
FP001	17	
80328	4	
81354 ✓	13	

1

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Work Order ID: 84477

Parent Item: D206-642-411

Parent Item Name: Skidtube LH

Start Date: 5/14/12

Required Date: 5/14/12

Start Qty: 1.00

Required Qty: 1.00

D3535-23	Manufactured	No	Each	22.0000	1	BR 12-6-4
Wearshoe						
		<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>		
		FP001	22			
		81355	2			
		83375 ✓	20		1	
D3535-37	Manufactured	No	Each	4.0000	1	BR 12-6-4
Wearshoe						
		<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>		
		FP001	4			
		71668 ✓	4		1	
D3536-15	Manufactured	No	Each	20.0000	1	BR 12-6-4
Gasket						
		<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>		
		FP002	20			
		73318 ✓	14		1	
		81343	6			
D3536-23	Manufactured	No	Each	16.0000	1	BR 12-6-4
Gasket						
		<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>		
		FP002	16			
		74510	1			
		83377 ✓	15		1	
D3536-37	Manufactured	No	Each	19.0000	1	BR 12-6-4
Gasket						
		<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>		
		FP002	19			
		66823 ✓	7		1	
		82623	12			

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Work Order ID: 84477  
Parent Item: D206-642-411  
Parent Item Name: Skidtube LH

Start Date: 5/14/12  
Start Qty: 1.00

Required Date: 5/14/12  
Required Qty: 1.00

D3537-1 Manufactured No Each 41.0000  
Wearpad

6 BR 12-6-4.

Location	Loc Qty	Loc Code
FG 84091	10	
79833	10	
FP002	31	
69817	5	
81362	22	
83254	1	
83255	3	

6.

D3537-3 Manufactured No Each 28.0000  
Wearpad

1 BR 12-6-4.

Location	Loc Qty	Loc Code
FP002	28	
78836	5	
81363 ✓	23	

1

MS21042-4 Purchased No Each 1,071.0000  
USE MS21042L4

MTA -1 SP M105054

Location	Loc Qty	Loc Code
ST299	1071	
100743	9	
119124	1000	
5461	1	
6844	19	
7690	24	
8182	6	
9063	8	
9229	4	

D2068-043

B 32503 SP

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Work Order ID: 84477  
Parent Item: D206-642-411  
Parent Item Name: Skidtube LH

Start Date: 5/14/12

Required Date: 5/14/12

Start Qty: 1.00

Required Qty: 1.00

MS21043-4 Nut Purchased No Each 1,546.0000

*SP* 1

Location	Loc Qty	Loc Code
FG	40	
104603	40	
ST301	1506	
119546	185	
121162	821	
121652	500	

1 ✓

MS27039C1-08 SCREW Purchased No Each 1,142.0000

60

*BR 12-6-4.*

Location	Loc Qty	Loc Code
FP002	1	
116022	1	
ST292	1122	
120308 ✓	354	
121068	108	
121162	660	
ST293	19	
116373	3	
118077	14	
119309	2	

*60.*

NAS1149C0332R Washer Purchased No Each 3,354.0000

60

*BR 12-6-4.*

Location	Loc Qty	Loc Code
ST297	219	
119736	196	
120648	23	
ST298	3135	
121255 ✓	11	
121509 ✓	3124	

*60.*

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Shop Packet Print

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Date: Tuesday, 8/21/2007 2:06:23 PM  
User: Kim Johnston

## Process Sheet

38

Customer : CU-DAR001 Dart Helicopters Services Drawing Name : 206 L HIGH GEAR SKID TUBE  
Job Number : 34134A  
Estimate Number : 10522  
P.O. Number :  
This Issue : 8/21/2007 S.O. No. :  
Prsht Rev. : NC Part Number : D206642441  
First Issue : / / Type : LANDING GEAR Drawing Number : D2650 REV E  
Previous Run : 33929A Drawing Revision : E  
Written By : Due Date : 9/20/2007 Qty: 1 Um: Each  
Checked & Approved By :  
Comment : Est Rev. H 05.10.11 Added D3429-1 per CHG002 KJ/CP/JL  
M

## Additional Product

Job Number:



Seq. #: Machine Or Operation: Description:

1.0 DC DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Photocopy bluefile and create labels per PPP D206-642-441 CHG002

N/A

2.0 D2620 Bent 206 Skidtube



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number Description Batch  
1 D2620 Bent Tube 3" OD 335880

SL 7-9-12

3.0 D2647 Cap



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number Description Batch  
1 D2647 Fwd Cap 29328 BE 07-10-02

BE 07-10-02

4.0 LANDING GEAR 1 LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Deburr Fwd edge of tube

2-Remove ridge on inside of Fwd edge of tube as per Dwg D2650

3-Weld Fwd Cap as per Dwg D2650. Use aluminum rod. Grind D2647 to fit as required.

A/R Aluminum Rod M105138 BE 07-10-02

4-Grind weld flush to cap on top surface only.

BE 07-10-02

SL 7-9-12

Date: Tuesday, 8/21/2007 2:06:23 PM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206 L HIGH GEAR SKIDTUBE

Job Number: 34134A

Part Number: D206642441

Job Number:



Seq. #:

Machine Or Operation:

Description :

5-Cut aft end 138.60" from front of tube

6-Drill pilot holes using drill jig DT8025 & DT8169 (A,B,C,D). Open to Ø0.312".

7-Drill holes for wearplates using DT 8028-7. Open to Ø 0.297".

8-Open using #6 Drill Bit

9-Open holes for Tow Ring to Ø0.625" as per Dwg D2650, D2650-7 Drilling Detail

10-Remove inner indexing ridge on aft end of skidtubeas per Dwg D2650

11-Deburr and Blow out all chips form inside the tube

DP  
7-10-4

5.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

DP  
7-10-4

6.0

D26547

206 I Beam (Web)



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

1 D2654-7

Web

1334594

DP  
7-10-4

7.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Open holes to finished size as per Dwg D2650, D2650-7 Drilling Detail (without cutting fluid)

2-Countersink crossbolt spacer holes as per Dwg D2650(without cutting fluid)

3-Deburr. Blow out chips. Grind alodine off around crossbolt spacer:

4-Bond D2654-7 web in place as per QSI 015Ensure holes line upAllow 12 Hrs. cure time before cutting

Start Date: 7-10-4 Time: 12:30pm

Finish Date: 7/10/05 Time: 8:00am

A/R Sikaflex-291 M 105586

Sikaflex expiry date: 8-7-1

DP  
7-10-4

Date: Tuesday, 8/21/2007 2:06:23 PM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206 L HIGH GEAR SKIDTUBE

Job Number: 34134A

Part Number: D206642441

Job Number:



Seq. #:

Machine Or Operation:

Description:

8.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

*8/17/10/105*

9.0

D2649

Crossbolt Spacer



Comment: Qty.: 23.0000 Each(s)/Unit Total: 23.0000 Each(s)

Pick:

*★*

Qty Part Number

Description

Batch

23 D2649

Crossbolt spacer

*B34612*

*BE 07/10/11*

10.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Insert cross bolt spacers D2649. Weld as per QSI 004 and Dwg D2650. Remember to back drill each hole to 0.25" before welding the other side. Use aluminum rod.  
A/R Aluminum Rod *m 105138*

*BE 07/10/11*

2-Grind welds flush as per Dwg D2650. Masking Tape access to inside of the Skidtube

*SL 7-10-12*

3-Counterbore 5/16" x 0.750" deep as per Dwg D2650 Debur

*U 7-10-13*

11.0

D2680041

Nut Plate



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2680-041

Nut Plate

*B30446 ①*

*7-10-13*

12.0

CCR264SS33

Cherry Rivet



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Pick:

Qty Part Number

Description Batch

2 CCR264SS3-3

Rivets

*M105525*

*②*

*U 7-10-13*

13.0

M7885343

Rivet



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Pick:

Qty Part Number

Description Batch



Date: Tuesday, 8/21/2007 2:06:23 PM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206 L HIGH GEAR SKIDTUBE

Job Number: 34134A

Part Number: D206642441

Job Number:



Seq. #:

Machine Or Operation:

Description:

2 M7885/3-4-3

Rivets *M102515 ②* *7-10-13*

14.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Install D2680-041 Nut Plate as per Dwg D2650

*7-10-13*

15.0

QC9

VISUAL WELDING INSPECTION



Comment: VISUAL WELDING INSPECTION

*07-10-15 ①*

16.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

*07/10/15*

17.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Pressure wash as per QSI 005

*07/10/23*  
*07-10-15*

*1X*

18.0

~~SPRAY PAINTING~~

SPRAY PAINTING



Comment: Make sure Nut Plate Thread protected use paint screw

Issue P.O.

After Debosselage

Spray Paint Delfleet Blue

Clear with Delfleet

*powder coat white*  
*per Dst M105068*

*07-10-23*

19.0

QC13

INSPECT SPRAY PAINT



Comment: INSPECT SPRAY PAINT

*FL 07/10/24 ①*

20.0

D26483

Wearpad



Comment: Qty.: 6.0000 Each(s)/Unit Total: 6.0000 Each(s)

Pick:

Qty Part Number

Description Batch

6 D2648-3

Wearpad

*534591*

*FL 07/10/24 ①*

Date: Tuesday, 8/21/2007 2:06:23 PM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206 L HIGH GEAR SKIDTUBE

Job Number: 34134A

Part Number: D206642441

Job Number:



Seq. #:

Machine Or Operation:

Description:

21.0

D265615

Wearplate



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2656-15

Wearshoe

D32579

FL

22.0

D265623

Wearplate



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2656-23

Wearshoe

D34171

FL

23.0

D265637

Wearplate



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2656-37

Wearshoe

D34510

FL

24.0

D34291



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D3429-1

Wearpad

D34012

FL

25.0

ALS41032130

Insert



Comment: Qty.: 60.0000 Each(s)/Unit Total: 60.0000 Each(s)

Pick:

Qty Part Number

Description Batch

60 ALS4-1032-130

Inserts

or (see QSI 017)

D34 M105729

FL 07/10/24 (1)

Date: Tuesday, 8/21/2007 2:06:23 PM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206 L HIGH GEAR SKIDTUBE

Job Number: 34134A

Part Number: D206642441

Job Number:



Seq. #:

Machine Or Operation:

Description :

26.0

AN960JD10L

Washer



Comment: Qty.: 60.0000 Each(s)/Unit Total : 60.0000 Each(s)

Pick:

Qty Part Number

Description Batch

60 AN960JD10L

Washer

M104885

FL

27.0

MS27039108

Screw



Comment: Qty.: 60.0000 Each(s)/Unit Total : 60.0000 Each(s)

Pick:

Qty Part Number

Description Batch

60 MS27039-1-08

Screw

M104547

FL

28.0

D26511

Plug



Comment: Qty.: 22.0000 Each(s)/Unit Total : 22.0000 Each(s)

Pick:

Qty Part Number

Description Batch

22 D2651-1

Plugs

B33349

FL

29.0

D26513

O-Ring



Comment: Qty.: 22.0000 Each(s)/Unit Total : 22.0000 Each(s)

Pick:

Qty Part Number

Description Batch

22 D2651-3

O-Rings

B33087

FL

30.0

AN960JD416

Washer



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 AN960JD416

Washer

M105426

FL

31.0

MS27039406

Screw



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

FL 07/10/24

Date: Tuesday, 8/21/2007 2:06:23 PM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206 L HIGH GEAR SKIDTUBE

Job Number: 34134A

Part Number: D206642441

Job Number:



Seq. #:

Machine Or Operation:

Description:

1. MS27039-4-06 Screw

*M15194*

*FL*

32.0

D2646

Aft Cap



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2646

Aft Cap

*D31335*

*FL*

33.0

AN960JD10L

Washer



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Pick:

Qty Part Number

Description Batch

2 AN960JD10L

Washer

*M104885*

*FL*

34.0

MS27039108

Screw



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Pick:

Qty Part Number

Description Batch

2 MS27039-1-08

Screw

*M104547*

*FL*

35.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

1-Install inserts & wearpads as per dwg D2922. Use a drop of Sikaflex inside insert holes before installing wearpad/wearplate.

A/R Sikaflex-291

Sikaflex expiry date:

*M105585*  
*08-07*

2-Install O-Rings D2651-3 on plugs D2651-1 with Petroleum Jelly and install plugs as per Dwg D2650.  
Clean excess adhesive

3-Install MS27039-4-06 Screw as per DEO 9153

4-Inspect for foreign object per QSI 024

5-Install D2646 Aft Cap and seal with SikaflexClean excess adhesive

A/R Sikaflex-291

Sikaflex expiry date:

*M105585*  
*08-07*

6-Wing Walk as per Dwg D2650-7 and QSI 005 4.4

Batch: *M106030*

*FL*  
*07/10/24*  
*07-10-25*

①

40

Date: Wednesday, 9/12/2007 11:48:53 AM  
 User: Kim Johnston

## Process Sheet

Customer : CU-DAR001 Dart Helicopters Services Drawing Name : 206L/L3/L4 HIGH GEAR SKID  
 Job Number : 34560  
 Estimate Number : 10525  
 P.O. Number :  
 This Issue : 9/12/2007 S.O. No. :  
 Prsht Rev. : NC  
 First Issue : 11 Type : LANDING GEAR  
 Previous Run : 34557  
 Written By :  
 Checked & Approved By :  
 Comment : Est Rev:K 05.10.11 Revised picklist per CHG004 KJ/CP/JL  
 M

Part Number : D206642411  
 Drawing Number : N/A  
 Project Number : N/A  
 Drawing Revision : N/A  
 Material :  
 Due Date : 10/5/2007 Qty: 1 Um: Each

## Additional Product

Job Number:



Seq. #: Machine Or Operation: Description :

1.0 DC DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Photocopy bluefile and create labels per PPP D206-642-411 CHG004

07.09.13  
 A10/31

2.0 34560A 206 L HIGH GEAR SKIDTUBE



Comment: Sub-Component 206 L HIGH GEAR SKIDTUBE

D206-642-441 B 34134A

3.0 PACKAGING 1 PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Pick Packing Kit

4.0 D2652 Bushing



Comment: Qty.: 24.0000 Each(s)/Unit Total: 24.0000 Each(s)

Pick: Packing Kit

Qty Part Number Description Batch  
 24 D2652 Bushing 534893  
 1 D206-642-441(REF) 134134A

SQ

5.0 D2655 Ring



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick: Packing Kit

Qty Part Number Description Batch  
 1 D2655 Tow Ring 32988

7/10/30 SQ

Date: Wednesday, 9/12/2007 11:48:53 AM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206LL/L3/L4 HIGH GEAR SKID

Job Number: 34560

Part Number: D206642411

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

D2659

Lug Assembly



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

2 D2659 Lug Assembly

34076 SQ 34076 1x 7333871 1x

7.0

D2712

Set Screw



Comment: Qty.: 10.0000 Each(s)/Unit Total : 10.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

10 D2712

Set Screw

34172 SQ

8.0

D29321

206 Saddle Left side



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

1 D2932-1

Saddle

37002 37002 SQ

9.0

D29331

206 Saddle Left



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

1 D2933-1

Saddle

34190 SQ

10.0

D2934

Saddle Spacer



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

2 D2934

Saddle Spacer

34630 SQ

11.0

D2935

Saddle Spacer



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

2 D2935

Saddle Spacer

34174 2/10/31 SQ

Date: Wednesday, 9/12/2007 11:48:53 AM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206L/L3/L4 HIGH GEAR SKID

Job Number: 34560

Part Number: D206642411

Job Number:



Seq. #:

Machine Or Operation:

Description:

12.0

D29381

206 Saddle Left side



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

1 D2938-1

Saddle

B33355

SP

13.0

D29391

206 Saddle Left side



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

1 D2939-1

Saddle

33361

SP

14.0

D2968043

Tow Ring



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

1 D2968-043

Tow Ring

30275

~~SP~~ 32503 SG

7/10/31

15.0

AN337A

Bolt



Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

4 AN3-37A

Bolt

M103947

SO

16.0

AN341A

Bolt



Comment: Qty.: 8.0000 Each(s)/Unit Total: 8.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

8 AN3-41A

Bolt

M105428

SP

17.0

AN45A

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description

Batch

M100857

7/10/31

SP

Date: Wednesday, 9/12/2007 11:48:53 AM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206L/L/L3/L4 HIGH GEAR SKID

Job Number: 34560

Part Number: D206642411

Job Number:



Seq. #:

Machine Or Operation:

Description :

1 AN4-5A

Bolt

18.0

AN46A

Bolt



Comment: Qty.: 12.0000 Each(s)/Unit Total : 12.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description Batch

12 AN4-6A

Bolt

M104322

SP

19.0

AN511A

Bolt



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description Batch

8 AN5-11A

Bolt

M105810

SP

20.0

AN512A

Bolt



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description Batch

4 AN5-12A

Bolt

M104885

SP

21.0

AN513A

Bolt



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description Batch

4 AN5-13A

Bolt

M104936

SP

22.0

AN960JD10

Washer



Comment: Qty.: 12.0000 Each(s)/Unit Total : 12.0000 Each(s)

Pick: Packing Kit

Qty Part Number

Description Batch

+12 AN960JD10

Washer

M100151

7/10/31

SP



Date: Wednesday, 9/12/2007 11:48:53 AM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206L/L3/L4 HIGH GEAR SKID

Job Number: 34560

Part Number: D206642411

Job Number:



Seq. #:

Machine Or Operation:

Description :

23.0

AN960JD1016

Washer



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Qty Part Number Description Batch

1 AN960JD1016 Washer 5519 *50*

24.0

AN960JD416

Washer



Comment: Qty.: 25.0000 Each(s)/Unit Total : 25.0000 Each(s)

Qty Part Number Description Batch

*f1* 25 AN960JD416 Washer M105426 *54*

25.0

AN960JD516

Washer



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Qty Part Number Description Batch

*EP* 8 AN960JD516 Washer M104154 *56*

26.0

AN9704

Washer



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Qty Part Number Description Batch

*6* 1 AN970-4 Washer M105442 *54*

27.0

MS21042L3

Nut



Comment: Qty.: 12.0000 Each(s)/Unit Total : 12.0000 Each(s)

Qty Part Number Description Batch

*f1* 12 MS21042L3 Nut (or -3) M104625 *54*

28.0

MS21042L4

Nut



Comment: Qty.: 13.0000 Each(s)/Unit Total : 13.0000 Each(s)

Qty Part Number Description Batch

*6* 13 MS21042L4 Nut (or -4) M105054 *8/10/31 50*

Date: Wednesday, 9/12/2007 11:48:53 AM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 206L/L3/L4 HIGH GEAR SKID

Job Number: 34560

Part Number: D206642411

Job Number:



Seq. #:

Machine Or Operation:

Description:

29.0

QC4

INSPECT 100% KITS FOR COMPLETENESS



Comment: INSPECT 100% KITS FOR COMPLETENESS

07/10/31

30.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D206-642-411

Location:

PPP Rev: D

07/10/31

07

31.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

07.11.01

07

Job Completion



C 207/11/01

Part Number D206-642-411  
Description 206 SKIDTUBE INSTALLATION

Chg.	Date	By	Relevant Documents
1	98.12.14	DS	MDL- D206-642 REV. I
2	99.04.28	DS	- MDL- D206-642 REV. J - ADDED SHOULDER SPACERS PER DSI 9150 REV. A - D2655 TOW RING SHIPPED LOOSE RATHER THAN INSTALLED ON SKIDTUBE
3	00.03.14	DS	CHANGE TO D2968-043 TOW RING PER DSF 9181 REV. A
4	05.10.04	CP	Add 73475-1 MDL- D206-642 Rev O
005	08.10.07	HJ	DSI 9421 Rev. A, D2650 Rev. F (ECN 08-538)
006	09.02.19	HJ	DSI 9421 Rev. B, DSI 9440 Rev. A, D206-648 Rev. B, D3414 Rev. B (ECN 09-538)

✓ 84474 - 38778

✓ 84475 - 34556

✓ 84476 - 38777

✓ 84477 - 34560

# **ENGINEERING CHANGE NOTICE** **DART AEROSPACE LTD**

Date: 09.02.18	Job No.: 00569	ADR Yes/No: N	ADR Date:	ECN #: 09- 531
Product No.: D206-642		Created By: AJS	Approved By: <i>[Signature]</i>	
Product Name: Skidbte Installation		Checked By: <i>[Signature]</i>	General Manager Approval:	

Distribution	Reqd	Resp	Initial / Date
Production Manager	Y	LL	<i>11/09/02/19</i>
Production Engineering Coord	Y	EC/DD	<i>11/09/02/19</i>
Production Document Control	Y	JLD	<i>11/09/02/19</i>
Customer Technical Support			

Distribution	Reqd	Resp	Initial / Date
DQA / QA Coord			
QC Coordinator	Y	JM	<i>10/09/02/19</i>
Marketing	Y	SW	<i>8/09/03/19</i>
Customer Order Processing			

Reason for Change: DESIGN IMPROVEMENT CHANGE FROM CARBON STEEL TO STAINLESS STEEL

**Documents Affected:**

DSI 9421 REV B  
DSI 9440 REV A  
D206-648 REV B  
D3414 Rev B

PARTS MUST COMPLY ☐

PREVIOUS PARTS SATISFACTORY ☒

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3					

#	Engineering Actions	Reqd	Resp	Notes	Complete
4	Required Documents/Drawings Under Review	Y	KJ		<i>09.02.19</i>
5	Update Product Compatability Matrix	N			
6	Create Eurocopter Form (FEE)	N			
7	Notify TC / FAA of Change	N			

#	Document Control Actions	Reqd	Resp	Notes	Complete
8	Move Electronic Files	Y	KJ		<i>09.02.19</i>
9	Update Blue/Pink/DSI Folder and Electronic Files	Y	KJ		<i>09.02.19</i>
10	Update Controlled PDF Files	Y	KJ		<i>09.02.19</i>
11	Update Master Document List (MDL)	Y	AJS	<i>Rev. U</i>	<i>09.02.19</i>
12	Update Document Record (DR)	Y	KJ		<i>09.02.19</i>
13	Update Product Development Summary	N			
14	Update QSI 021 and/or STC Approval List	N			
15	Update Parts / STC Database	N			
16	Update / Verify ARC Database	N			
17	Create / Update Change Record Form	Y	KJ	<i>SEE BELOW</i>	<i>09.02.19</i>
18	Create / Update PPP's	Y	KJ		<i>09.02.19</i>
19	Update Document Control Database / Laminated Dwgs	N			
20	Update Grey Project Binder	Y	KJ		<i>09.02.19</i>
21	Update D-Part/M-Drawing/DSI/DEO Master Binders	Y	KJ		<i>09.02.19</i>
22					
23					

**Description / Action:**

Roll -111/-112/-211/-212/-213/-214 to Change number 005 (Per DSI 9421)

*-141/-241 @ CHG 004, -143/-243 @ CHG 002 (PER DSI 9440 Rev. A)*

Roll -311/-312/-411/-412 To Change number 006 (Per DSI 9421)

*-341/-441 @ CHG 003, -443 @ CHG 001, 343 @ CHG 002 (PER DSI 9440 Rev. A)*

Previous parts Disposition: Depelete existing stock of -111/-112/-211/-212/-213/-214 parts @ Change 004 repectively. DO NOT mix parts from change 004 and change 005

Previous parts Disposition: Depelete existing stock of -311/-312/-411/-412 parts @ Change 005 DO NOT mix parts from change 005 and change 006

*D206-648-011/-013 NOW AT CHG002 (D206-648 Rev. B)-DO NOT MIX PARTS*

ECN Verified & Complete: *[Signature]*

Date: *09/03/16*

# **ENGINEERING CHANGE NOTICE** **DART AEROSPACE LTD**

Date: 09.02.18	Job No: 00569	ADR Yes/No: N	ADR Date:	ECN #: 09- 531
Product No.: D206-642	Created By: AJS	Approved By:		
Product Name: Skidbe Installation	Checked By:	General Manager Approval:		

Distribution	Reqd	Resp	Initial / Date
Production Manager	Y	LL	
Production Engineering Coord	Y	EC/DD	09.02.19
Production Document Control	Y	JLD	09.02.19
Customer Technical Support			

Distribution	Reqd	Resp	Initial / Date
DQA / QA Coord			
QC Coordinator	Y	JM	09.02.19
Marketing	Y	SW	
Customer Order Processing			

Reason for Change: DESIGN IMPROVEMENT CHANGE FROM CARBON STEEL TO STAINLESS STEEL

**Documents Affected:**

DSI 9421 REV B  
DSI 9440 REV A  
D206-648 REV B  
D3414 Rev B

PARTS MUST COMPLY ☐

PREVIOUS PARTS SATISFACTORY ☒

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3					

#	Engineering Actions	Reqd	Resp	Notes	Complete
4	Required Documents/Drawings Under Review	Y	KJ		09.02.19
5	Update Product Compatability Matrix	N			
6	Create Eurocopter Form (FEE)	N			
7	Notify TC / FAA of Change	N			

#	Document Control Actions	Reqd	Resp	Notes	Complete
8	Move Electronic Files	Y	KJ		09.02.19
9	Update Blue/Pink/DSI Folder and Electronic Files	Y	KJ		09.02.19
10	Update Controlled PDF Files	Y	KJ		09.02.19
11	Update Master Document List (MDL)	Y	AJS	Rev. U	09.02.19
12	Update Document Record (DR)	Y	KJ		09.02.19
13	Update Product Development Summary	N			
14	Update QSI 021 and/or STC Approval List	N			
15	Update Parts / STC Database	N			
16	Update / Verify ARC Database	N			
17	Create / Update Change Record Form	Y	KJ	SEE BELOW	09.02.19
18	Create / Update PPP's	Y	KJ		09.02.19
19	Update Document Control Database / Laminated Dwg's	N			
20	Update Grey Project Binder	Y	KJ		09.02.19
21	Update D-Part/M-Drawing/DSI/DEO Master Binders	Y	KJ		09.02.19
22					
23					

**Description / Action:**

Roll -111/-112/-211/-212/-213/-214 to Change number 005 (Per DSI 9421)

-141/-241 @ CHG 004, -143/-243 @ CHG 002 (PER DSI 9440 Rev. A)

Roll -311/-312/-411/-412 To Change number 006 (Per DSI 9421)

-341/-441 @ CHG 003, -443 @ CHG 001, 343 @ CHG 002 (PER DSI 9440 Rev. A)

Previous parts Disposition: Deplete existing stock of -111/-112/-211/-212/-213/-214 parts @ Change 004 respectively. DO NOT mix parts from change 004 and change 005

Previous parts Disposition: Deplete existing stock of -311/-312/-411/-412 parts @ Change 005 DO NOT mix parts from change 005 and change 006

D206-648-011/-013 NOW AT CHG002 (D206-648 Rev. B) -DO NOT MIX PARTS

N/A  
JLD 09.03.03

ECN Verified & Complete: \_\_\_\_\_

Date: \_\_\_\_\_

4.4 206L/L-1/L-3/L-4 High Gear Skidtubes (D206-642)  
32.13 206L/L-1/L-3/L-4 High Gear Skidtubes (ICA-D206-642)

IS:

ITEM	Qty -411	Qty -412	Qty -441	Qty -443	Qty -013	PART NUMBER	DESCRIPTION
	X					D206-642-411	SKIDTUBE INSTALLATION, LH
		X				D206-642-412	SKIDTUBE INSTALLATION, RH
	1	1	X			D206-642-441	SKIDTUBE
				X		D206-642-443	WEARSHOE KIT
	1	1			X	D206-648-013	GROUND HANDLING KIT
30	1	1				D3407-043	TOW RING ASSEMBLY
32A	1	1				D3456-1	WASHER
32B	2	2				D3457-1	WASHER
33	1	1				MS21043-4	NUT
34	1	1				AN4C5A	BOLT
35	1	1				AN960C416	WASHER
36	1	1				D3413-1	RING
40					2	D3414-041	LUG ASSEMBLY
41					4	AN3C37A	BOLT
42					8	D2652	BUSHING
43					4	MS21043-3	NUT
44					4	AN960C10	WASHER

WAS:

ITEM	Qty -411	Qty -412	Qty -441	Qty -443	Qty -011	PART NUMBER	DESCRIPTION
	X					D206-642-411	SKIDTUBE INSTALLATION, LH
		X				D206-642-412	SKIDTUBE INSTALLATION, RH
	1	1	X			D206-642-441	SKIDTUBE
				X		D206-642-443	WEARSHOE KIT
	1	1			X	D206-648-011	GROUND HANDLING KIT
30	1	1				D2707-043 (OR D2968-043)	TOW RING
31	1	1				AN960JD1016	WASHER
32	1	1				AN970-4	WASHER
33	1	1				MS21042-4	NUT (OR MS21042L4)
34	1	1				AN4-5A	BOLT
35	1	1				AN960JD416	WASHER
36	1	1				D2655	RING
40					2	D2659	GHW LUG
41					4	AN3-37A	BOLT
42					8	D2652	BUSHING
43					4	MS21042-3	NUT (OR MS21042L3)
44					4	AN960DJ10	WASHER

DESIGN	AJS	<b>DART AEROSPACE USA, INC</b> PORT HADLOCK, WA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9421	SHEET 4 OF 5
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SKIDTUBE INSTALLATIONS	NTS
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4.3 206 L/L-1/L-3/L-4/407 Low Gear & 407 High Gear Skidtubes (D206-642)  
32.12 206 L/L-1/L-3/L-4/407 Low Gear & 407 High Gear Skidtubes (ICA-D206-642)

ITEM	Qty -311	Qty -312	Qty -341	Qty -347	Qty -013	PART NUMBER	DESCRIPTION
	X					D206-642-311	SKIDTUBE INSTALLATION, LH
		X				D206-642-312	SKIDTUBE INSTALLATION, RH
	1	1	X			D206-642-341	SKIDTUBE
				X		D206-642-347	WEARSHOE KIT (REPLACES -343)
	1	1			X	D206-648-013	GROUND HANDLING KIT

IS:

20A			6			D3537-1	WEARPAD (REPLACES D2648-3)	(MODIFY)
21A			1			D3537-3	WEARPAD (REPLACES D3429-1)	(MODIFY)
22A			1	1		D3535-11	WEARSHOE (REPLACES D2656-11)	(MODIFY)
22B			1	1		D3536-11	GASKET	(ADD)
23A			1	1		D3535-23	WEARSHOE (REPLACES D2656-23)	(MODIFY)
23B			1	1		D3536-23	GASKET	(ADD)
24A			1	1		D3535-35	WEARSHOE (REPLACES D2656-35)	(MODIFY)
24B			1	1		D3536-35	GASKET	(ADD)
26A			54			MS27039-1C08	SCREW	(MODIFY)
26B			54			AN960C10L	WASHER	(MODIFY)

WAS:

20A			6			D2648-3	WEARPAD
21A			1			D3429-1	WEARPAD
22A			1	1		D2656-11	WEARSHOE
23A			1	1		D2656-23	WEARSHOE
24A			1	1		D2656-35	WEARSHOE
26A			54			MS27039-1-08	SCREW
26B			54			AN960JD10L	WASHER

4.4 206L/L-1/L-3/L-4 High Gear Skidtubes (D206-642)  
32.13 206L/L-1/L-3/L-4 High Gear Skidtubes (ICA-D206-642)

ITEM	Qty -411	Qty -412	Qty -441	Qty -447	Qty -013	PART NUMBER	DESCRIPTION
	X					D206-642-411	SKIDTUBE INSTALLATION, LH
		X				D206-642-412	SKIDTUBE INSTALLATION, RH
	1	1	X			D206-642-441	SKIDTUBE
				X		D206-642-447	WEARSHOE KIT (REPLACES -443)
	1	1			X	D206-648-013	GROUND HANDLING KIT

IS:

20A			6			D3537-1	WEARPAD (REPLACES D2648-3)	(MODIFY)
21A			1			D3537-3	WEARPAD (REPLACES D3429-1)	(MODIFY)
22A			1	1		D3535-15	WEARSHOE (REPLACES D2656-15)	(MODIFY)
22B			1	1		D3536-15	GASKET	(ADD)
23A			1	1		D3535-23	WEARSHOE (REPLACES D2656-23)	(MODIFY)
23B			1	1		D3536-23	GASKET	(ADD)
24A			1	1		D3535-37	WEARSHOE (REPLACES D2656-37)	(MODIFY)
24B			1	1		D3536-37	GASKET	(ADD)
26A			60			MS27039-1C08	SCREW	(MODIFY)
26B			60			AN960C10L	WASHER	(MODIFY)

WAS:

20A			6			D2648-3	WEARPAD
21A			1			D3429-1	WEARPAD
22A			1	1		D2656-15	WEARSHOE
23A			1	1		D2656-23	WEARSHOE
24A			1	1		D2656-37	WEARSHOE
26A			60			MS27039-1-08	SCREW
26B			60			AN960JD10L	WASHER

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CHECKED	<del>---</del>	DRAWING NO.	REV. 3
MFG. APPR.	N/A	DSI 9440	SHEET 3 OF 4
APPROVED	<del>---</del>	TITLE	SCALE
DE APPR.	<del>---</del>	WEARSHOE CHANGE	NTS
DATE	09.03.25	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

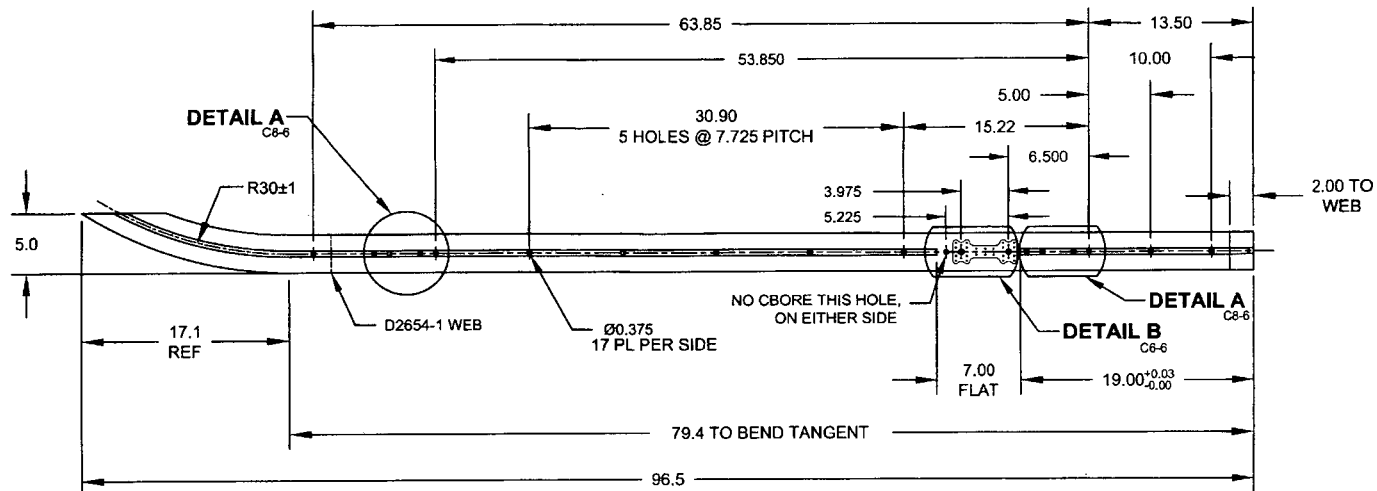
QTY -1	QTY -3	QTY -5	QTY -7	PART NUMBER	DESCRIPTION
X				D2650-1	SKIDTUBE ASSEMBLY
	X			D2650-3	SKIDTUBE ASSEMBLY
		X		D2650-5	SKIDTUBE ASSEMBLY
			X	D2650-7	SKIDTUBE ASSEMBLY
1	1	1	1	D2600-1-160	EXTRUSION
1				D2654-1	WEB
	1			D2654-3	WEB
		1		D2654-5	WEB
			1	D2654-7	WEB
1	1	1	1	D2646	AFT CAP
1	1	1	1	D2647	CAP
17	18	19	23	D2649	CROSS BOLT SPACER
16	18	14	22	D2651-1	PLUG
16	18	14	22	D2651-3	O-RING
1	1	1	1	D2680-041	NUT PLATE
2	2			D3286-1	DOUBLER
2	2			D3286-3	STUD
42	44	54	60	ALS7-1032-130	INSERT (or AKS4-1032-130, ALS4-1032-130, ALS7-1032-130)
2	2	2	2	AN960JD10L	WASHER
2	2	2	2	CCR264SS3-3	RIVET
2	2	2	2	CR3212-4-03	RIVET
2	2	2	2	MS27039-1-08	SCREW
1	1	1	1	MS27039-4-06	SCREW
1	1	1	1	AN960JD416	WASHER
52	52			CR3212-4-04	RIVET

**NOTES:**

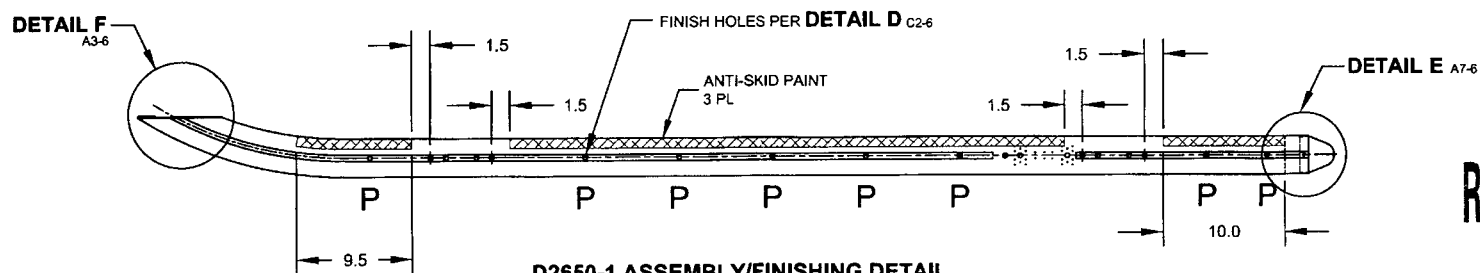
- 1) MATERIAL: N/A
- 2) FINISH: -CHEMICAL CONVERSION COAT PER DART QSI 005 4.1  
-POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3  
-BLACK ANTI-SKID PAINT AS INDICATED TO 0.5 ABOVE LOCATION RIDGE PER DART QSI 005 4.4
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A
- 8) WELD PER DART QSI 004
- 9) DAMAGE TOLERANCE ON FWD BEND:  
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 5 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.
- 10) BOND WEB INTO OUTER TUBE WITH SIKAFLEX-241/-291 ADHESIVE PER DART QSI 015
- 11) INSERT D2651-1 PLUG C/W D2651-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE)
- 12) DRILL Ø0.297 FOR ALS7-1032-130 INSERTS USING TEMPLATE DT8056-1 ON -1 TUBE, DT8056-3 ON -3 TUBE, DT8056-5 ON -5 TUBE, AND DT8056-7 ON -7 TUBE. INSTALL INSERTS AFTER FINISH.
- 13) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

F	DRAWING UPDATED TO CURRENT STANDARDS. SHT 6 ADDED. ALL SECTION AND DETAIL VIEWS TRANSFERRED TO SHT 6. SHT 1 IN PL PART D2649 QTY UPDATED. SHT 6 SECT C-C GRIND INSTRUCTIONS DELETED FROM NOTE 7 (SEE NCR 239).	AJS	08.08.08
E	RMOVE CBORE, CHG DRILL, ADD CHAMFER	CP	06.03.30
D	REDRAW; INCCRP. DE09136/9153/9163 MOD GROUND HANDLING ON D2650-1/-3	CP	04.05.17
C	CHANGE HOLE PATTERN AND FRONT END	DS	97.10.29
B	AS MANUFACTURED CHANGES	DS	97.06.26
A	NEW ISSUE	DS	97.03.25
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	<b>DART AEROSPACE USA, INC</b>	
DRAWN	AJS	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D2650	SHEET 1 OF 6
APPROVED		TITLE	SCALE
DE APPR.		206/407 SKIDTUBE ASSEMBLIES	NTS
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


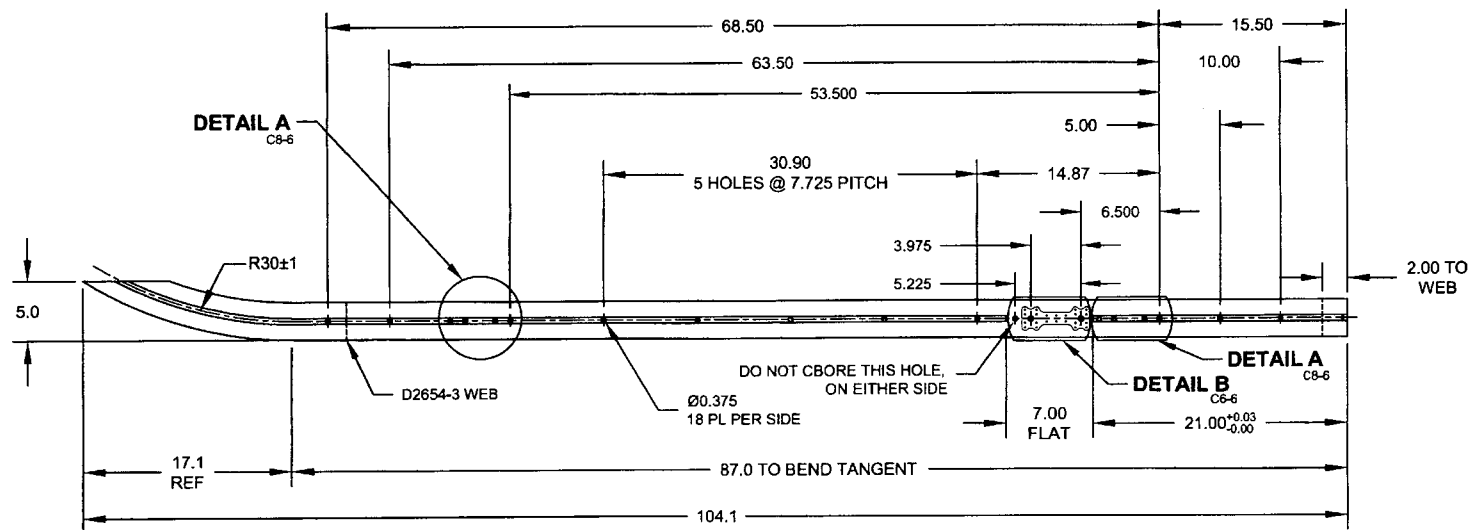
**D2650-1 BENDING/DRILLING DETAIL**



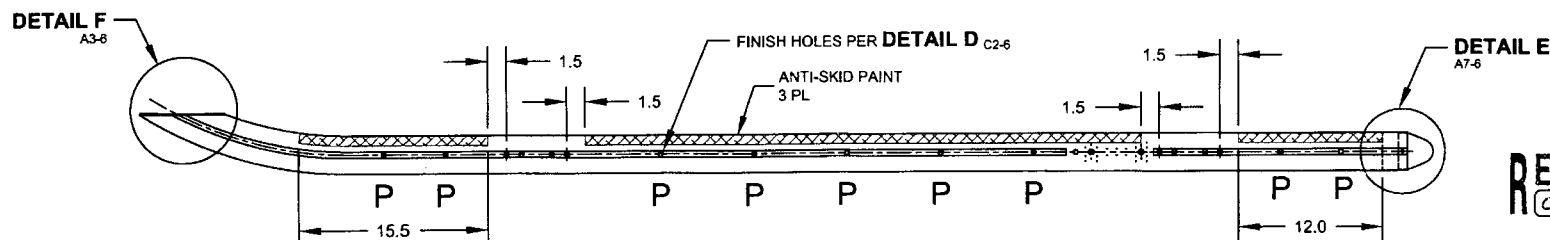
**D2650-1 ASSEMBLY/FINISHING DETAIL**

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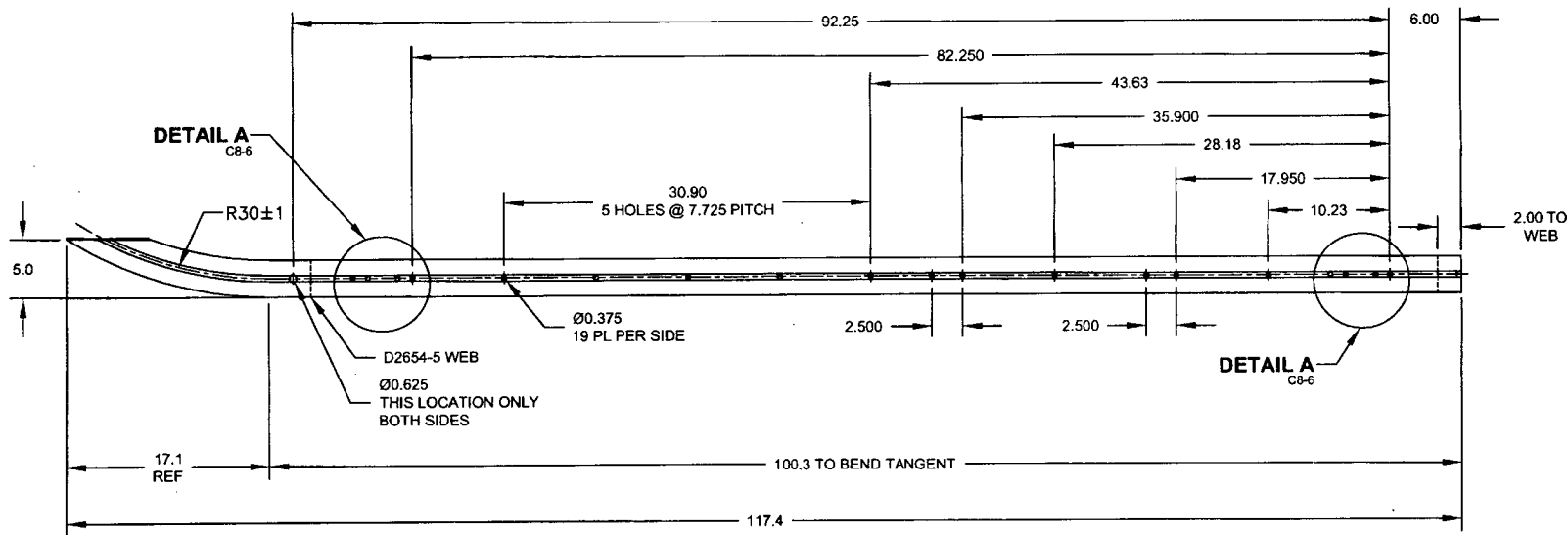
**D2650-3 BENDING/DRILLING DETAIL**



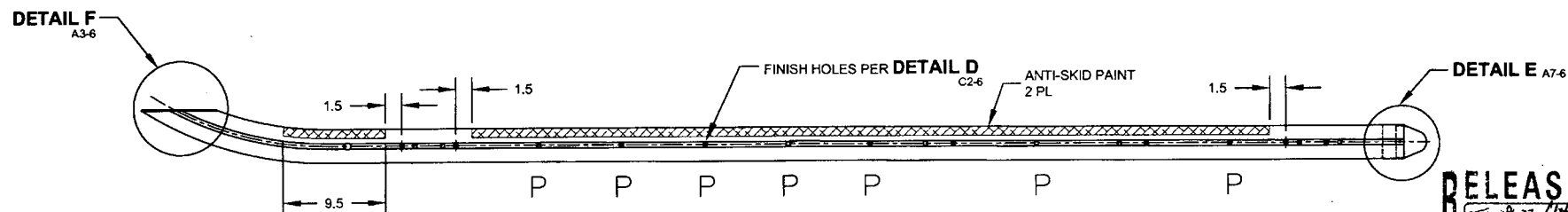
**D2650-3 ASSEMBLY/FINISHING DETAIL**

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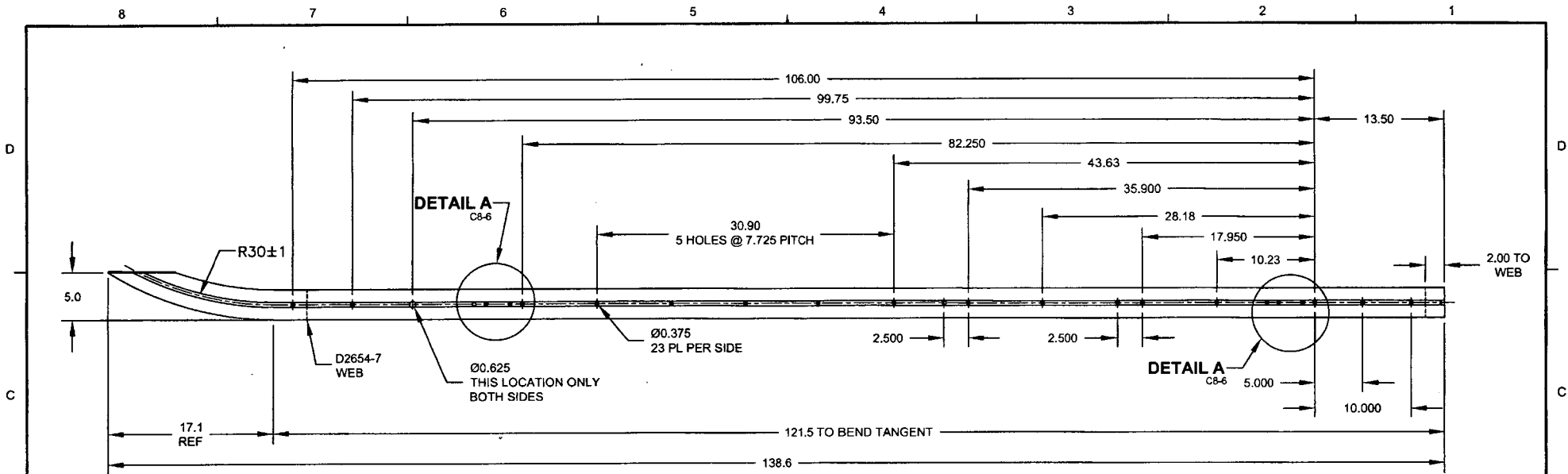
**D2650-5 BENDING/DRILLING DETAIL**



**D2650-5 ASSEMBLY/FINISHING DETAIL**

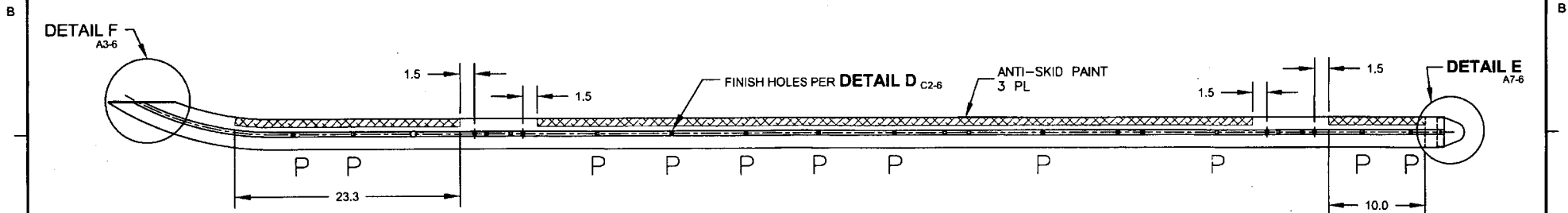
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MFG. APPR.		D2650	SHEET 4 OF 6
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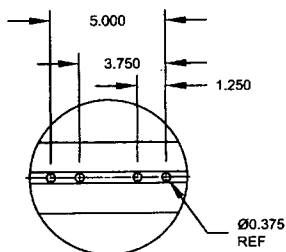
**D2650-7 BENDING/DRILL DETAIL**

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08 07-22



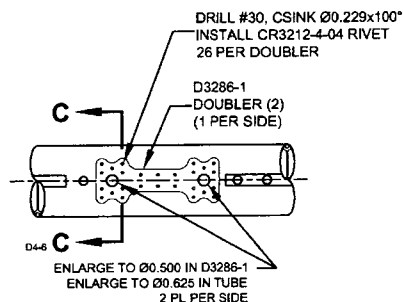
**D2650-7 ASSEMBLY/FINISHING DETAIL**

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MFG. APPR.		D2650	SHEET 5 OF 6
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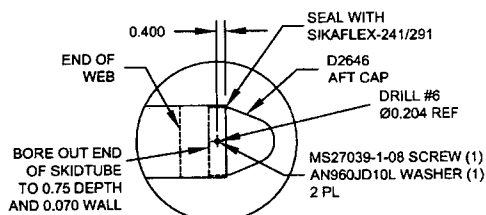
**DETAIL A**  
SCALE 2X

C2-2  
D7-2  
C2-3  
D7-3  
C2-4  
D7-4  
C2-5  
D6-5



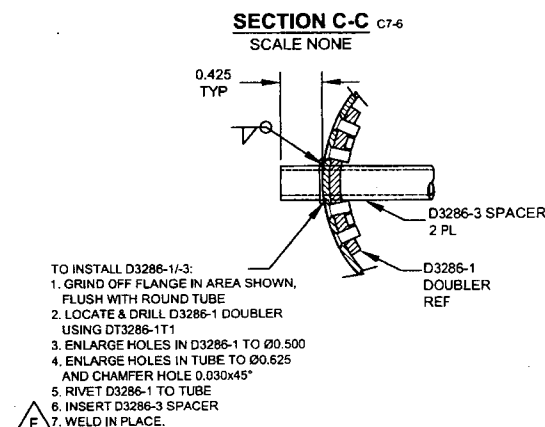
**DETAIL B**  
SCALE 2X

C3-2  
C3-3

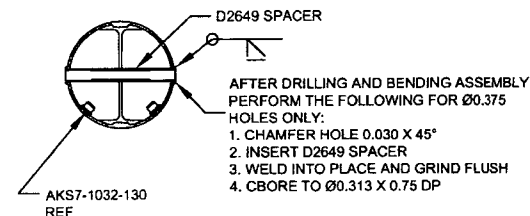


**DETAIL E**  
SCALE 2X

B2-2  
B2-3  
B1-4  
B1-5

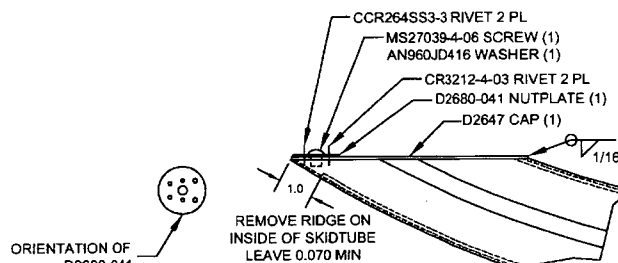


**SECTION C-C**  
SCALE NONE



**DETAIL D**  
FOR Ø0.375 HOLES ONLY  
SCALE 3X

B4-2  
B4-3  
B4-4  
B4-5



**DETAIL F**  
SCALE NONE



B8-2  
B8-3  
B8-4  
B8-5

**DETAIL F NOTES:**

1. CUT TUBE LEVEL
2. REMOVE RIDGE ON FWD SIDE
3. LOCATE D2647 (TRIM AS NECESSARY)
4. WELD D2647 IN PLACE PER DART QSI 004
5. GRIND FLUSH
6. RIVET D2680-041 NUT PLATE IN PLACE

NOTE: MASK THREADS IN D2680-041 PRIOR TO FINISH

**RELEASED**  
08-09-22-198

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MFG. APPR.		D2650	SHEET 6 OF 6
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